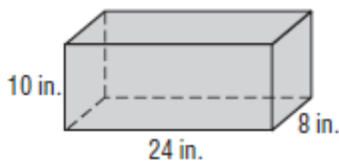


**Unit 11 Worksheet #4 - Review of Prisms and Cylinders**

*For #'s 1-3, find the following. Round all answers to the nearest hundredths!*

1.



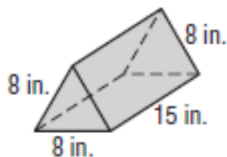
Area of the base = \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Surface Area = \_\_\_\_\_

Volume = \_\_\_\_\_

2.



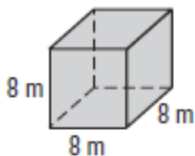
Area of the base = \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Surface Area = \_\_\_\_\_

Volume = \_\_\_\_\_

3.



Area of the base = \_\_\_\_\_

Lateral Area = \_\_\_\_\_

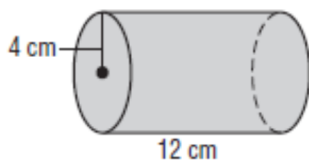
Surface Area = \_\_\_\_\_

Volume = \_\_\_\_\_

4. **CRAFTS** Becca made a rectangular jewelry box in her art class and plans to cover it in red silk. If the jewelry box is  $6\frac{1}{2}$  inches long,  $4\frac{1}{2}$  inches wide, and 3 inches high, find the surface area that will be covered.

For #'s 5-7, find the following for each cylinder. Leave all answers in terms of  $\pi$ !

5.



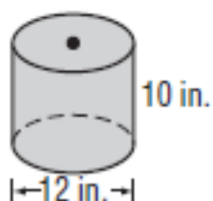
Area of the base = \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Surface Area = \_\_\_\_\_

Volume = \_\_\_\_\_

6.



Area of the base = \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Surface Area = \_\_\_\_\_

Volume = \_\_\_\_\_

7.  $d = 24$  mm,  $h = 20$  mm

Area of the base = \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Surface Area = \_\_\_\_\_

Volume = \_\_\_\_\_

**Find the radius for each cylinder given the following.**

8. The surface area is 603.2 square meters, and the height is 10 meters.

9. The surface area is 100.5 square inches, and the height is 6 inches.